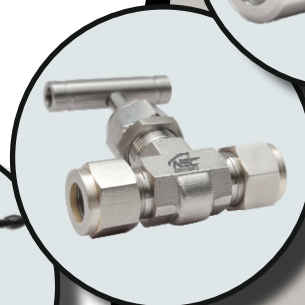
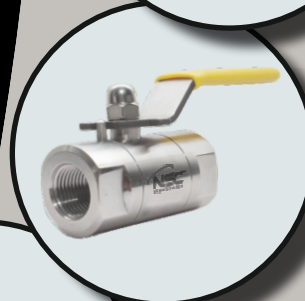




**NSC INDUSTRIES PVT. LTD.**



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## FACILITIES





**NSC Industries Pvt. Ltd.** is Group Company of NATIONAL STEEL CORPORATION founded in 2012 by group of professionals after successful research & development in manufacturing of Industrial valves and fitting implementing the practical experience and knowledge in this field. We have technical expertise and believes in a best quality product which will meet challenging demands of the customers in this field. A strong technical team with a blend of deep experience and technological knowledge leads the company to meet the demands of Pharma, Petroleum Chemical, Oil and Gas industry.

Our journey started with small manufacturing unit producing stainless steel bar stock ball valves and pressure regulators. Today we are emerged as a group company with more than 4500 sq. ft area specialized in high quality Laboratory Equipment, Ball valves, Needle Valves, Check Valves, Pressure Safety Valves, Flush Bottom Valves, Pressure regulators, Compression fittings, Quick release Coupling, Pipe Fittings used in Pharma, Chemical, Oil and Gas Industry.

Today we are the leading manufacture of Industrial valves and fittings are specialized in high pressure Ball Valves up to 20,000psig and as per customer requirements. All the components are machined on VMC and CNC machines with high end accuracy, tolerances and precision.

**NSC Industries Pvt. Ltd.** is bound to ensure that all our products we manufacture, undergo precise quality checks as per International Standards right from the selection of the raw material to final finished products.

## Product Range / Index

Product Name	Page No.	Product Name	Page No.
➤ Ball Valves	2	➤ JIC Flare fittings	17
➤ Needle Valves	3	➤ Pressure Safety Valve	18
➤ Non-return Valve (Check Valves)	4	➤ Flush Bottom Valves	19
➤ Compression Tube fittings	5-11	➤ Quick Release couplings (QRC)	20
➤ Pressure Pipe fittings	12-14	➤ Inline filter	20
➤ Black and Bleed Valves	15	➤ Pressure Regulators	21
➤ Manifold Valves	15-16	➤ Globe and Gate Valves	21

## BALL VALVES



**NSC** Ball valves can be used in a variety of applications ranging from general purpose to alternative fuel service to control system pressure. The ball valves are manufactured or configured to a wide range of specifications. All valves deliver full flow and positive shutoff in a simple, compact design where space is a concern.

Ball valves are designed to operate in fully open or fully closed positions. A packing adjustment may be required periodically to increase service life and to prevent leakage. Valves that have not been cycled for a period may have a higher initial actuation torque.



**Ball Valve Coding Table:**

Size	Code	Type	Code	MOC	Code	Packing	Code	Pressure	Series	Code	Thread Type	Code	Type	Code
1/8"	2	Male	M	SS316	S6	Peek	P	3000psi	Series 1	P1	BSP	B	2 way	2
1/4"	4	Female	F	HC276	H6	PTFE	T	6000psi	Series 2	P2	NPT	N	3 way	3
3/8"	6	Male x Female	D	Brass	BR			10000psi	Series 3	P3	OD	O		
1/2"	8	OD	O	SS304	S4			15000psi	Series 4	P4	BSF	F		
3/4"	10			MS	MS									
1"	12			Monel 400	M4									
1 1/4"	14			INC 625	I5									
1 1/2"	16													
2"	18													

**Packing Selection Table:**

Packing material	Pressure	Temperature	Packing material	Pressure	Temperature
Peek	3000psi	300 deg.c	PTFE	3000psi	200 deg.c
	6000psi	300 deg.c.		6000psi	200 deg.c.
	10000psi	200 deg.c.		10000psi	150 deg.c.
	15000psi	200 deg.c.		15000psi	50 deg.c.

**Item Code Example:**

- Brand Name: **NSC**
- Item Name: Ball valve (Abbreviation: **BV**)

Item code	Item description
<b>NSC-BV4DS6P-P1-N2</b>	Ball Valve 1/4"Male x Female SS316 Peek 3000psi NPT 2 way



## NEEDLE VALVES



**NSC** Needle valves provide reliable pressure seal for a range of applications using a variety of stem designs, sealing patterns, materials and end connections in designs such as integral-bonnet and union-bonnet. Needle valves provide the ability to make fine pressure shut off to accurately control system flow in low- and high-pressure application at desired temperature.

Needle Valves are used in general-purpose applications to isolate or vent system media. The hardened stainless steel and integral bonnet design, nonrotating needle promotes leak-tight shutoff and long service life. The valve stem threads are isolated from the media. Compact design. Stainless steel stop pin. High-temperature packing and bonnet seal option available. Antitamper and lockable handle features available. Available in straight as well as angular pattern.



**Needle Valve Coding Table:**

Size	Code	Type	Code	MOC	Code	Packing	Code	Pressure	Series	Code	Thread Type	Code	Type	Code
1/8"	2	Male	M	SS316	S6	CFT	C	3000psi	Series 1	P1	BSP	B	Angular	A
1/4"	4	Female	F	HC276	H6	Grafoil	G	6000psi	Series 2	P2	NPT	N	Straight	S
3/8"	6	Male x Female	D	Brass	BR			10000psi	Series 3	P3	Metric	M	Tube/Pipe OD	O
1/2"	8	OD	O	SS304	S4			15000psi	Series 4	P4	OD	O		
3/4"	10			MS	MS									
1"	12			Monel 400	M4									
1 1/4"	14			INC 625	I5									
1 1/2"	16													
2"	18													

**Packing Selection Table:**

Packing material	Pressure	Temperature	Packing material	Pressure	Temperature
CFT	3000psi	300 deg.c	Grafoil	3000psi	500 deg.c
	6000psi	300 deg.c.		6000psi	500 deg.c.
	10000psi	200 deg.c.			
	15000psi	200 deg.c.			

**Item Code Example:**

- Brand Name: **NSC**
- Item Name: Needle valve (Abbreviation: **NV**)

Item code	Item description
<b>NSC-NV4MS6C-P1-NA</b>	Needle Valve 1/4"Male SS316 CFT 3000psi NPT Angular

## NON-RETURN VALVES (CHECK VALVES)

**NSC** Non return valves (check valves) are available with fixed cracking pressures with variety of end connections and materials. All check valves are designed for 0.2 bar cracking pressure and 3000psi at 250 deg. c. These check valves are very smooth in operation and fully pressure sealed. For valves not actuated for a period of time, initial cracking pressure may be higher than the actual cracking pressure.



**Non Return Valve Coding Table:**

Size	Code	Type	Code	MOC	Code	Packing material	Code	Pressure	Series	Code	Thread Type	Code
1/8"	2	Male	M	SS316	S6	Viton	V	3000psi	Series 1	P1	BSP	B
1/4"	4	Female	F	HC276	H6	Kalrez	K				NPT	N
3/8"	6	Male x Female	D	SS304	S4						Metric	M
1/2"	8	OD	O	Monel 400	M4						OD	O
				INC 625	I5							

**Packing Selection Table:**

Packing material	Pressure	Temperature	Packing material	Pressure	Temperature
Viton	3000psi	200 deg.c	Kalrez	3000psi	250 deg.c

**Item Code Example:**

- Brand Name: **NSC**
- Item Name: Non-return valve (Abbreviation: **NR**)

Item code	Item description
<b>NSC-NR4FS6V-P1-N</b>	Non return valve 1/4"Female SS316 Viton 3000psi NPT

# COMPRESSION TUBE FITTINGS



NSC Tube fittings undergo special processes like burnishing, cold hardening, thread rolling and case hardening of back ferrule for better swagging. Nut threads are silver plated for anticizing of threads. Easy identifications are provided for tube fittings, such as step shoulder on Hex body and nuts for metric size fittings. For high pressure as well as vacuum and other critical applications, the plant designers have no other alternative but to use a most reliable, safe and leak proof Tube connection. NSC proven design of its products in the fields of Hydraulics, Pneumatics and Instrumentation assures you of maximum reliability and years of trouble-free service under adverse conditions and rigorous operating environment.

**Table-1 Maximum allowable working pressure for wall thickness**

Tube Wall Thickness		0.010-0.012	0.012-0.014	0.014-0.016	0.016-0.020	0.020-0.028	0.028-0.035	0.035-0.049	0.049-0.065	0.065-0.083	0.083-0.095	0.095-0.109	0.109-0.120	0.12
Mm	Inch													
--	1/16"	5600	6860	8150	9480	12080								
2	1/8"						8550	10950						
3	3/16"						5500	7100	10300					
6	1/4"						4100	5200	7600	10300				
8	5/16"							4100	5900	8100				
10	3/8"							3350	4850	6550				
12	1/2"							2650	3750	5150	6750			
16	5/8"								2950	4050	5250	6050		
20	3/4"								2450	3350	4250	5250	5850	
22	7/8"								2050	2850	3650	4250	4850	
25	1"									2400	3100	3600	4200	4700

**Table-2 Parameters used to determine allowable working pressure at higher temperature**

°F	°C	A.I.S.I.316
200	93	1
400	204	0.96
600	316	0.85
800	427	0.79
1000	538	0.76
1200	649	0.37

To determine allowable pressure at higher temperatures, multiply allowable working pressure from Table 1 by factors shown in Table 2.

For example: The allowable pressure for Type 316 stainless steel, size 1/2" O.D. X 0.049" wall at 800°F (427°C) would be equivalent to 3750 psi X 0.79 = 2962.5 psi.

**Material of Construction (MOC) Table with codes**

MOC	Code
SS304	S4
SS316	S6
HC276	H6

Note: Please select the required MOC code and apply after model no with hyphen "-". For example- NSC -1-FF-S6






## Tube Fittings Index




NSC tube fittings utilize advanced geometry back ferrule design and ferrule hardening process, providing excellent vibration resistance and leak-tight gas seal. All tube fitting components are manufactured from controlled chemistry material with a minimum pitting resistance equivalent and fitting components are Positive Material Identification (PMI) tested with test reports available. Each tube fitting component is stamped with its material type. Excellent corrosion resistance in corrosive environments. Advanced-geometry back ferrule design enhances sealing action.

Item Description	Page No.	Item Description	Page No.
Front Ferrule	6	Male Branch Tee	9
Back Ferrule	6	Female Run Tee	9
Nuts	6	Female Branch Tee	9
Tube End Closure	6	Male Connector	9
Fitting End Closure	7	Female Connector	10
Union Elbow	7	Bulk Head Male Connector	10
Union Cross	7	Bulk Head Female Connector	10
Union Tee	7	Reducer	10
Union	7	Reducing Union	11
Male Elbow	8	Reducing Union Tee	11
Female Elbow	8	Bulk Head Reducing Union	11
Male Adaptor	8	Bulk Head Union	11
Male Run Tee	8	Bulk Head Elbow	11











Front Ferrule	Inch OD Tubes		Metric OD Tubes	
Model No. NSC-1-FF	Model No.	Tube OD	Model No.	Tube OD
	NSC-1-FF-2	1/8"	NSC-1-FF-3M	3mm
	NSC-1-FF-4	1/4"	NSC-1-FF-6M	6mm
	NSC-1-FF-6	3/8"	NSC-1-FF-8M	8mm
	NSC-1-FF-8	1/2"	NSC-1-FF-10M	10mm
	NSC-1-FF-10	3/4"	NSC-1-FF-12M	12mm
	NSC-1-FF-12	1"	NSC-1-FF-14M	14mm
	NSC-1-FF-14	1 1/4"	NSC-1-FF-15M	15mm
	NSC-1-FF-16	1 1/2"	NSC-1-FF-16M	16mm
	NSC-1-FF-18	2"	NSC-1-FF-18M	18mm
			NSC-1-FF-25M	25mm
Back Ferrule	Inch OD Tubes		Metric OD Tubes	
Model No. NSC-2-BF	Model No.	Tube OD	Model No.	Tube OD
	NSC-2-BF-2	1/8"	NSC-2-BF-3M	3mm
	NSC-2-BF-4	1/4"	NSC-2-BF-6M	6mm
	NSC-2-BF-6	3/8"	NSC-2-BF-8M	8mm
	NSC-2-BF-8	1/2"	NSC-2-BF-10M	10mm
	NSC-2-BF-10	3/4"	NSC-2-BF-12M	12mm
	NSC-2-BF-12	1"	NSC-2-BF-14M	14mm
	NSC-2-BF-14	1 1/4"	NSC-2-BF-15M	15mm
	NSC-2-BF-16	1 1/2"	NSC-2-BF-16M	16mm
	NSC-2-BF-18	2"	NSC-2-BF-18M	18mm
			NSC-2-BF-25M	25mm
Nut	Inch OD Tubes		Metric OD Tubes	
Model No. NSC-3-NT	Model No.	Tube OD	Model No.	Tube OD
	NSC-3-NT-2	1/8"	NSC-3-NT-3M	3mm
	NSC-3-NT-4	1/4"	NSC-3-NT-6M	6mm
	NSC-3-NT-6	3/8"	NSC-3-NT-8M	8mm
	NSC-3-NT-8	1/2"	NSC-3-NT-10M	10mm
	NSC-3-NT-10	3/4"	NSC-3-NT-12M	12mm
	NSC-3-NT-12	1"	NSC-3-NT-14M	14mm
	NSC-3-NT-14	1 1/4"	NSC-3-NT-15M	15mm
	NSC-3-NT-16	1 1/2"	NSC-3-NT-16M	16mm
	NSC-3-NT-18	2"	NSC-3-NT-18M	18mm
			NSC-3-NT-25M	25mm
Tube End Closure	Inch OD Tubes		Metric OD Tubes	
Model No. NSC-4-TC	Model No.	Tube OD	Model No.	Tube OD
	NSC-4-TC-2	1/8"	NSC-4-TC-3M	3mm
	NSC-4-TC-4	1/4"	NSC-4-TC-6M	6mm
	NSC-4-TC-6	3/8"	NSC-4-TC-8M	8mm
	NSC-4-TC-8	1/2"	NSC-4-TC-10M	10mm
	NSC-4-TC-10	3/4"	NSC-4-TC-12M	12mm
	NSC-4-TC-12	1"	NSC-4-TC-14M	14mm
	NSC-4-TC-14	1 1/4"	NSC-4-TC-15M	15mm
	NSC-4-TC-16	1 1/2"	NSC-4-TC-16M	16mm
	NSC-4-TC-18	2"	NSC-4-TC-18M	18mm
			NSC-4-TC-25M	25mm


Fitting End Closure	Inch OD Tubes		Metric OD Tubes	
Model No. NSC-5-FC	Model No.	Tube OD	Model No.	Tube OD
	NSC-5-FC-2	1/8"	NSC-5-FC-3M	3mm
	NSC-5-FC-4	1/4"	NSC-5-FC-6M	6mm
	NSC-5-FC-6	3/8"	NSC-5-FC-8M	8mm
	NSC-5-FC-8	1/2"	NSC-5-FC-10M	10mm
	NSC-5-FC-10	3/4"	NSC-5-FC-12M	12mm
	NSC-5-FC-12	1"	NSC-5-FC-14M	14mm
	NSC-5-FC-14	1 1/4"	NSC-5-FC-15M	15mm
	NSC-5-FC-16	1 1/2"	NSC-5-FC-16M	16mm
	NSC-5-FC-18	2"	NSC-5-FC-18M	18mm
			NSC-5-FC-25M	25mm
Union Elbow	Inch OD Tubes		Metric OD Tubes	
Model No. NSC-6-UE	Model No.	Tube OD	Model No.	Tube OD
	NSC-6-UE-2	1/8"	NSC-6-UE-3M	3mm
	NSC-6-UE-4	1/4"	NSC-6-UE-6M	6mm
	NSC-6-UE-6	3/8"	NSC-6-UE-8M	8mm
	NSC-6-UE-8	1/2"	NSC-6-UE-10M	10mm
	NSC-6-UE-10	3/4"	NSC-6-UE-12M	12mm
	NSC-6-UE-12	1"	NSC-6-UE-14M	14mm
	NSC-6-UE-14	1 1/4"	NSC-6-UE-15M	15mm
	NSC-6-UE-16	1 1/2"	NSC-6-UE-16M	16mm
	NSC-6-UE-18	2"	NSC-6-UE-18M	18mm
			NSC-6-UE-25M	25mm
Union Cross	Inch OD Tubes		Metric OD Tubes	
Model No. NSC-7-UC	Model No.	Tube OD	Model No.	Tube OD
	NSC-7-UC-2	1/8"	NSC-7-UC-3M	3mm
	NSC-7-UC-4	1/4"	NSC-7-UC-6M	6mm
	NSC-7-UC-6	3/8"	NSC-7-UC-8M	8mm
	NSC-7-UC-8	1/2"	NSC-7-UC-10M	10mm
	NSC-7-UC-10	3/4"	NSC-7-UC-12M	12mm
	NSC-7-UC-12	1"	NSC-7-UC-16M	16mm
			NSC-7-UC-25M	25mm
Union Tee	Inch OD Tubes		Metric OD Tubes	
Model No. NSC-8-UT	Model No.	Tube OD	Model No.	Tube OD
	NSC-8-UT-2	1/8"	NSC-8-UT-3M	3mm
	NSC-8-UT-4	1/4"	NSC-8-UT-6M	6mm
	NSC-8-UT-6	3/8"	NSC-8-UT-8M	8mm
	NSC-8-UT-8	1/2"	NSC-8-UT-10M	10mm
	NSC-8-UT-10	3/4"	NSC-8-UT-12M	12mm
	NSC-8-UT-12	1"	NSC-8-UT-16M	16mm
			NSC-8-UT-25M	25mm
Union	Inch OD Tubes		Metric OD Tubes	
Model No. NSC-9-UN	Model No.	Tube OD	Model No.	Tube OD
	NSC-8-UN-2	1/8"	NSC-8-UN-3M	3mm
	NSC-8-UN-4	1/4"	NSC-8-UN-6M	6mm
	NSC-8-UN-6	3/8"	NSC-8-UN-8M	8mm
	NSC-8-UN-8	1/2"	NSC-8-UN-10M	10mm
	NSC-8-UN-10	3/4"	NSC-8-UN-12M	12mm
	NSC-8-UN-12	1"	NSC-8-UN-16M	16mm
			NSC-8-UN-25M	25mm


Male Elbow		Inch OD x NPT			Inch OD x BSP		
	Model No. NSC-10-ME	Model No.	Tube OD	Thread Size	Model No.	Tube OD	Thread Size
		NSC-10-ME-2-2N	1/8"	1/8" NPT	NSC-10-ME-2-2B	1/8"	1/8" BSP
		NSC-10-ME-4-4N	1/4"	1/4" NPT	NSC-10-ME-4-4B	1/4"	1/4" BSP
		NSC-10-ME-6-6N	3/8"	3/8" NPT	NSC-10-ME-6-6B	3/8"	3/8" BSP
		NSC-10-ME-8-8N	1/2"	1/2" NPT	NSC-10-ME-8-8B	1/2"	1/2" BSP
		NSC-10-ME-10-10N	3/4"	3/4" NPT	NSC-10-ME-10-10B	3/4"	3/4" BSP
		NSC-10-ME-12-12N	1"	1" NPT	NSC-10-ME-12-12B	1"	1" BSP
		NSC-10-ME-14-14N	1 1/4"	1 1/4" NPT	NSC-10-ME-14-14B	1 1/4"	1 1/4" BSP
		NSC-10-ME-16-16N	1 1/2"	1 1/2" NPT	NSC-10-ME-16-16B	1 1/2"	1 1/2" BSP
		NSC-10-ME-18-18N	2"	2" NPT	NSC-10-ME-18-18B	2"	2" BSP
Female Elbow		Inch OD x NPT			Inch OD x BSP		
	Model No. NSC-11-FE	Model No.	Tube OD	Thread Size	Model No.	Tube OD	Thread Size
		NSC-11-FE-2-2N	1/8"	1/8" NPT	NSC-11-FE-2-2B	1/8"	1/8" BSP
		NSC-11-FE-4-4N	1/4"	1/4" NPT	NSC-11-FE-4-4B	1/4"	1/4" BSP
		NSC-11-FE-6-6N	3/8"	3/8" NPT	NSC-11-FE-6-6B	3/8"	3/8" BSP
		NSC-11-FE-8-8N	1/2"	1/2" NPT	NSC-11-FE-8-8B	1/2"	1/2" BSP
		NSC-11-FE-10-10N	3/4"	3/4" NPT	NSC-11-FE-10-10B	3/4"	3/4" BSP
		NSC-11-FE-12-12N	1"	1" NPT	NSC-11-FE-12-12B	1"	1" BSP
		NSC-11-FE-14-14N	1 1/4"	1 1/4" NPT	NSC-11-FE-14-14B	1 1/4"	1 1/4" BSP
		NSC-11-FE-16-16N	1 1/2"	1 1/2" NPT	NSC-11-FE-16-16B	1 1/2"	1 1/2" BSP
		NSC-11-FE-18-18N	2"	2" NPT	NSC-11-FE-18-18B	2"	2" BSP
Male Adaptor		Inch OD x NPT			Inch OD x BSP		
	Model No. NSC-12-MA	Model No.	Tube OD	Thread Size	Model No.	Tube OD	Thread Size
		NSC-12-MA-2-2N	1/8"	1/8" NPT	NSC-12-MA-2-2B	1/8"	1/8" BSP
		NSC-12-MA-4-4N	1/4"	1/4" NPT	NSC-12-MA-4-4B	1/4"	1/4" BSP
		NSC-12-MA-6-6N	3/8"	3/8" NPT	NSC-12-MA-6-6B	3/8"	3/8" BSP
		NSC-12-MA-8-8N	1/2"	1/2" NPT	NSC-12-MA-8-8B	1/2"	1/2" BSP
		NSC-12-MA-10-10N	3/4"	3/4" NPT	NSC-12-MA-10-10B	3/4"	3/4" BSP
		NSC-12-MA-12-12N	1"	1" NPT	NSC-12-MA-12-12B	1"	1" BSP
		NSC-12-MA-14-14N	1 1/4"	1 1/4" NPT	NSC-12-MA-14-14B	1 1/4"	1 1/4" BSP
		NSC-12-MA-16-16N	1 1/2"	1 1/2" NPT	NSC-12-MA-16-16B	1 1/2"	1 1/2" BSP
		NSC-12-MA-18-18N	2"	2" NPT	NSC-12-MA-18-18B	2"	2" BSP
Male Run Tee		Inch OD x NPT			Inch OD x BSP		
	Model No. NSC-13-MRT	Model No.	Tube OD	Thread Size	Model No.	Tube OD	Thread Size
		NSC-13-MRT-2-2N	1/8"	1/8" NPT	NSC-13-MRT-2-2B	1/8"	1/8" BSP
		NSC-13-MRT-4-4N	1/4"	1/4" NPT	NSC-13-MRT-4-4B	1/4"	1/4" BSP
		NSC-13-MRT-6-6N	3/8"	3/8" NPT	NSC-13-MRT-6-6B	3/8"	3/8" BSP
		NSC-13-MRT-8-8N	1/2"	1/2" NPT	NSC-13-MRT-8-8B	1/2"	1/2" BSP
		NSC-13-MRT-10-10N	3/4"	3/4" NPT	NSC-13-MRT-10-10B	3/4"	3/4" BSP
		NSC-13-MRT-12-12N	1"	1" NPT	NSC-13-MRT-12-12B	1"	1" BSP
		NSC-13-MRT-14-14N	1 1/4"	1 1/4" NPT	NSC-13-MRT-14-14B	1 1/4"	1 1/4" BSP
		NSC-13-MRT-16-16N	1 1/2"	1 1/2" NPT	NSC-13-MRT-16-16B	1 1/2"	1 1/2" BSP
		NSC-13-MRT-18-18N	2"	2" NPT	NSC-13-MRT-18-18B	2"	2" BSP





Male Branch Tee		Inch OD x NPT		Inch OD x BSP		
	Model No.	Tube OD	Thread Size	Model No.	Tube OD	Thread Size
	NSC-14-MBT-2-2N	1/8"	1/8" NPT	NSC-14-MBT-2-2B	1/8"	1/8" BSP
	NSC-14-MBT-4-4N	1/4"	1/4" NPT	NSC-14-MBT-4-4B	1/4"	1/4" BSP
	NSC-14-MBT-6-6N	3/8"	3/8" NPT	NSC-14-MBT-6-6B	3/8"	3/8" BSP
	NSC-14-MBT-8-8N	1/2"	1/2" NPT	NSC-14-MBT-8-8B	1/2"	1/2" BSP
	NSC-14-MBT-10-10N	3/4"	3/4" NPT	NSC-14-MBT-10-10B	3/4"	3/4" BSP
	NSC-14-MBT-12-12N	1"	1" NPT	NSC-14-MBT-12-12B	1"	1" BSP
	NSC-14-MBT-14-14N	1 1/4"	1 1/4" NPT	NSC-14-MBT-14-14B	1 1/4"	1 1/4" BSP
	NSC-14-MBT-16-16N	1 1/2"	1 1/2" NPT	NSC-14-MBT-16-16B	1 1/2"	1 1/2" BSP
	NSC-14-MBT-18-18N	2"	12" NPT	NSC-14-MBT-18-18B	2"	2" BSP
Female Run Tee		Inch OD x NPT		Inch OD x BSP		
	Model No.	Tube OD	Thread Size	Model No.	Tube OD	Thread Size
	NSC-15-FRT-2-2N	1/8"	1/8" NPT	NSC-15-FRT-2-2B	1/8"	1/8" BSP
	NSC-15-FRT-4-4N	1/4"	1/4" NPT	NSC-15-FRT-4-4B	1/4"	1/4" BSP
	NSC-15-FRT-6-6N	3/8"	3/8" NPT	NSC-15-FRT-6-6B	3/8"	3/8" BSP
	NSC-15-FRT-8-8N	1/2"	1/2" NPT	NSC-15-FRT-8-8B	1/2"	1/2" BSP
	NSC-15-FRT-10-10N	3/4"	3/4" NPT	NSC-15-FRT-10-10B	3/4"	3/4" BSP
	NSC-15-FRT-12-12N	1"	1" NPT	NSC-15-FRT-12-12B	1"	1" BSP
	NSC-15-FRT-14-14N	1 1/4"	1 1/4" NPT	NSC-15-FRT-14-14B	1 1/4"	1 1/4" BSP
	NSC-15-FRT-16-16N	1 1/2"	1 1/2" NPT	NSC-15-FRT-16-16B	1 1/2"	1 1/2" BSP
	NSC-15-FRT-18-18N	2"	2" NPT	NSC-15-FRT-18-18B	2"	2" BSP
Female Branch Tee		Inch OD x NPT		Inch OD x BSP		
	Model No.	Tube OD	Thread Size	Model No.	Tube OD	Thread Size
	NSC-16-FBT-2-2N	1/8"	1/8" NPT	NSC-16-FBT-2-2B	1/8"	1/8" BSP
	NSC-16-FBT-4-4N	1/4"	1/4" NPT	NSC-16-FBT-4-4B	1/4"	1/4" BSP
	NSC-16-FBT-6-6N	3/8"	3/8" NPT	NSC-16-FBT-6-6B	3/8"	3/8" BSP
	NSC-16-FBT-8-8N	1/2"	1/2" NPT	NSC-16-FBT-8-8B	1/2"	1/2" BSP
	NSC-16-FBT-10-10N	3/4"	3/4" NPT	NSC-16-FBT-10-10B	3/4"	3/4" BSP
	NSC-16-FBT-12-12N	1"	1" NPT	NSC-16-FBT-12-12B	1"	1" BSP
	NSC-16-FBT-14-14N	1 1/4"	1 1/4" NPT	NSC-16-FBT-14-14B	1 1/4"	1 1/4" BSP
	NSC-16-FBT-16-16N	1 1/2"	1 1/2" NPT	NSC-16-FBT-16-16B	1 1/2"	1 1/2" BSP
	NSC-16-FBT-18-18N	2"	2" NPT	NSC-16-FBT-18-18B	2"	2" BSP
Male Connector		Inch OD x NPT		Inch OD x BSP		
	Model No.	Tube OD	Thread Size	Model No.	Tube OD	Thread Size
	NSC-17-MC-2-2N	1/8"	1/8" NPT	NSC-17-MC-2-2B	1/8"	1/8" BSP
	NSC-17-MC-4-4N	1/4"	1/4" NPT	NSC-17-MC-4-4B	1/4"	1/4" BSP
	NSC-17-MC-6-6N	3/8"	3/8" NPT	NSC-17-MC-6-6B	3/8"	3/8" BSP
	NSC-17-MC-8-8N	1/2"	1/2" NPT	NSC-17-MC-8-8B	1/2"	1/2" BSP
	NSC-17-MC-10-10N	3/4"	3/4" NPT	NSC-17-MC-10-10B	3/4"	3/4" BSP
	NSC-17-MC-12-12N	1"	1" NPT	NSC-17-MC-12-12B	1"	1" BSP
	NSC-17-MC-14-14N	1 1/4"	1 1/4" NPT	NSC-17-MC-14-14B	1 1/4"	1 1/4" BSP
	NSC-17-MC-16-16N	1 1/2"	1 1/2" NPT	NSC-17-MC-16-16B	1 1/2"	1 1/2" BSP
	NSC-17-MC-18-18N	2"	2" NPT	NSC-17-MC-18-18B	2"	2" BSP


Female Connector	Inch OD x NPT			Inch OD x BSP		
	Model No.	Tube OD	Thread Size	Model No.	Tube OD	Thread Size
	NSC-18-FC-2-2N	1/8"	1/8" NPT	NSC-18-FC-2-2B	1/8"	1/8" BSP
	NSC-18-FC-4-4N	1/4"	1/4" NPT	NSC-18-FC-4-4B	1/4"	1/4" BSP
	NSC-18-FC-6-6N	3/8"	3/8" NPT	NSC-18-FC-6-6B	3/8"	3/8" BSP
	NSC-18-FC-8-8N	1/2"	1/2" NPT	NSC-18-FC-8-8B	1/2"	1/2" BSP
	NSC-18-FC-10-10N	3/4"	3/4" NPT	NSC-18-FC-10-10B	3/4"	3/4" BSP
	NSC-18-FC-12-12N	1"	1" NPT	NSC-18-FC-12-12B	1"	1" BSP
	NSC-18-FC-14-14N	1 1/4"	1 1/4" NPT	NSC-18-FC-14-14B	1 1/4"	1 1/4" BSP
	NSC-18-FC-16-16N	1 1/2"	1 1/2" NPT	NSC-18-FC-16-16B	1 1/2"	1 1/2" BSP
	NSC-18-FC-18-18N	2"	2" NPT	NSC-18-FC-18-18B	2"	2" BSP
Bulk Head Male Connector	Inch OD x NPT			Inch OD x BSP		
	Model No.	Tube OD	Thread Size	Model No.	Tube OD	Thread Size
	NSC-19-BMC-2-2N	1/8"	1/8" NPT	NSC-19-BMC-2-2B	1/8"	1/8" BSP
	NSC-19-BMC-4-4N	1/4"	1/4" NPT	NSC-19-BMC-4-4B	1/4"	1/4" BSP
	NSC-19-BMC-6-6N	3/8"	3/8" NPT	NSC-19-BMC-6-6B	3/8"	3/8" BSP
	NSC-19-BMC-8-8N	1/2"	1/2" NPT	NSC-19-BMC-8-8B	1/2"	1/2" BSP
	NSC-19-BMC-10-10N	3/4"	3/4" NPT	NSC-19-BMC-10-10B	3/4"	3/4" BSP
	NSC-19-BMC-12-12N	1"	1" NPT	NSC-19-BMC-12-12B	1"	1" BSP
	NSC-19-BMC-14-14N	1 1/4"	1 1/4" NPT	NSC-19-BMC-14-14B	1 1/4"	1 1/4" BSP
	NSC-19-BMC-16-16N	1 1/2"	1 1/2" NPT	NSC-19-BMC-16-16B	1 1/2"	1 1/2" BSP
	NSC-19-BMC-18-18N	2"	2" NPT	NSC-19-BMC-18-18B	2"	2" BSP
Bulk Head Female Connector	Inch OD x NPT			Inch OD x BSP		
	Model No.	Tube OD	Thread Size	Model No.	Tube OD	Thread Size
	NSC-20-BMC-2-2N	1/8"	1/8" NPT	NSC-20-BMC-2-2B	1/8"	1/8" BSP
	NSC-20-BMC-4-4N	1/4"	1/4" NPT	NSC-20-BMC-4-4B	1/4"	1/4" BSP
	NSC-20-BMC-6-6N	3/8"	3/8" NPT	NSC-20-BMC-6-6B	3/8"	3/8" BSP
	NSC-20-BMC-8-8N	1/2"	1/2" NPT	NSC-20-BMC-8-8B	1/2"	1/2" BSP
	NSC-20-BMC-10-10N	3/4"	3/4" NPT	NSC-20-BMC-10-10B	3/4"	3/4" BSP
	NSC-20-BMC-12-12N	1"	1" NPT	NSC-20-BMC-12-12B	1"	1" BSP
	NSC-20-BMC-14-14N	1 1/4"	1 1/4" NPT	NSC-20-BMC-14-14B	1 1/4"	1 1/4" BSP
	NSC-20-BMC-16-16N	1 1/2"	1 1/2" NPT	NSC-20-BMC-16-16B	1 1/2"	1 1/2" BSP
	NSC-20-BMC-18-18N	2"	2" NPT	NSC-20-BMC-18-18B	2"	2" BSP
Reducer	Inch OD Tubes			Metric OD Tubes		
	Model No.	Tube OD	Tube OD	Model No.	Tube OD	Tube OD
	NSC-21-R-2-2	1/8"	1/8"	NSC-21-R-3M-2	3mm	1/8"
	NSC-21-R-4-2	1/4"	1/8"	NSC-21-R-6M-2	6mm	1/8"
	NSC-21-R-6-2	3/8"	1/8"	NSC-21-R-8M-2	8mm	1/8"
	NSC-21-R-8-6	1/2"	3/8"	NSC-21-R-10M-6	10mm	3/8"
	NSC-21-R-10-8	3/4"	1/2"	NSC-21-R-12M-8	12mm	1/2"
	NSC-21-R-12-10	1"	3/4"	NSC-21-R-14M-10	14mm	3/4"

Reducing Union	Inch OD Tubes		
Model No. NSC-22-RU	Model No.	Tube OD	Tube OD
	NSC-22-RU-4-2	1/4"	1/8"
	NSC-22-RU-6-4	3/8"	1/4"
	NSC-22-RU-8-6	1/2"	3/8"
	NSC-22-RU-10-8	3/4"	1/2"
	NSC-22-RU-12-10	1"	3/4"
	NSC-22-RU-14-12	1 1/4"	1"

Reducing Union Tee	Inch OD tubes		
Model No. NSC-23-RUT	Model No.	Tube OD Side	Tube OD Middle
	NSC-23-RUT-4-4-2	1/4"	1/8"
	NSC-23-RUT-6-6-4	3/8"	1/4"
	NSC-23-RUT-8-8-6	1/2"	3/8"
	NSC-23-RUT-10-10-4	3/4"	1/4"
	NSC-23-RUT-12-12-8	1"	1/2"
	NSC-23-RUT-14-14-12	1 1/4"	1"
	NSC-23-RUT-16-16-14	1 1/2"	1 1/4"

Bulk Head Reducing Union	Inch OD tubes		
Model No. NSC-24-BRU	Model No.	Tube OD Side	Tube OD Middle
	NSC-24-BRU-4-2	1/4"	1/8"
	NSC-24-BRU-6-4	3/8"	1/4"
	NSC-24-BRU-8-6	1/2"	3/8"
	NSC-24-BRU-10-8	3/4"	1/2"
	NSC-24-BRU-12-10	1"	3/4"
	NSC-24-BRU-14-12	1 1/4"	1"

Bulk Head Union	Inch OD tubes	
Model No. NSC-25-BHU	Model No.	Tube OD
	NSC-25-BHU-2	1/8"
	NSC-25-BHU-4	1/4"
	NSC-25-BHU-6	3/8"
	NSC-25-BHU-8	1/2"
	NSC-25-BHU-10	3/4"
	NSC-25-BHU-12	1"
	NSC-25-BHU-14	1 1/4"
	NSC-25-BHU-16	1 1/2"
	NSC-25-BHU-18	2"

Bulk Head Elbow	Inch OD tubes	
Model No. NSC-26-BE	Model No.	Tube OD
	NSC-26-BE-2	1/8"
	NSC-26-BE-4	1/4"
	NSC-26-BE-6	3/8"
	NSC-26-BE-8	1/2"
	NSC-26-BE-10	3/4"
	NSC-26-BE-12	1"
	NSC-26-BE-14	1 1/4"
	NSC-26-BE-16	1 1/2"
	NSC-26-BE-18	2"



## PRESSURE PIPE FITTINGS



**NSC** Pipe fittings are manufactured in accordance to international standard and machined on CNC machines. All fittings have a high-quality appearance. Every fitting is marked with manufacturer's name for easy source tracing. Male threads are capped for protection. Straight fittings are manufactured from quality bar stock for strength.

### Pipe Fittings Index

Item Description	Page No.	Item Description	Page No.
Plug	12	Male Tee	13
Bushing	12	Female Cross	13
Nipple	12	Female Tee	13
Cap	12	Street Tee	14
Adaptor	13	Branch Tee	14
Male Elbow	13	Y Tee	14
Female Elbow	13	Hose Nipple	14
Street Elbow	13		14

Plug	Model No.	Thread Size	Model No.	Thread Size
	NPT		BSP	
	NSC-101-P-2N	1/8"	NSC-101-P-2B	1/8"
	NSC-101-P-4N	1/4"	NSC-101-P-4B	1/4"
	NSC-101-P-6N	3/8"	NSC-101-P-6B	3/8"
	NSC-101-P-8N	1/2"	NSC-101-P-8B	1/2"
	NSC-101-P-10N	3/4"	NSC-101-P-10B	3/4"
	NSC-101-P-12N	1"	NSC-101-P-12B	1"
	NSC-101-P-14N	1 1/4"	NSC-101-P-14B	1 1/4"
Bushing	Model No.	Thread Size	Model No.	Thread Size
	NPT		BSP	
	NSC-102-B-2N	1/8"	NSC-102-B-2B	1/8"
	NSC-102-B-4N	1/4"	NSC-102-B-4B	1/4"
	NSC-102-B-6N	3/8"	NSC-102-B-6B	3/8"
	NSC-102-B-8N	1/2"	NSC-102-B-8B	1/2"
	NSC-102-B-10N	3/4"	NSC-102-B-10B	3/4"
	NSC-102-B-12N	1"	NSC-102-B-12B	1"
	NSC-102-B-14N	1 1/4"	NSC-102-B-14B	1 1/4"
Nipple	Model No.	Thread Size	Model No.	Thread Size
	NPT		BSP	
	NSC-103-N-2N	1/8"	NSC-103-N-2B	1/8"
	NSC-103-N-4N	1/4"	NSC-103-N-4B	1/4"
	NSC-103-N-6N	3/8"	NSC-103-N-6B	3/8"
	NSC-103-N-8N	1/2"	NSC-103-N-8B	1/2"
	NSC-103-N-10N	3/4"	NSC-103-N-10B	3/4"
	NSC-103-N-12N	1"	NSC-103-N-12B	1"
Cap	Model No.	Thread Size	Model No.	Thread Size
	NPT		BSP	
	NSC-104-C-2N	1/8"	NSC-104-C-2B	1/8"
	NSC-104-C-4N	1/4"	NSC-104-C-4B	1/4"
	NSC-104-C-6N	3/8"	NSC-104-C-6B	3/8"
	NSC-104-C-8N	1/2"	NSC-104-C-8B	1/2"
	NSC-104-C-10N	3/4"	NSC-104-C-10B	3/4"
	NSC-104-C-12N	1"	NSC-104-C-12B	1"

Adaptor	Model No.	Thread Size	Model No.	Thread Size
<b>Model No.-NSG 105 A</b>	NPT		BSP	
	NSC-105-A-2N	1/8"	NSC-105-A-2B	1/8"
	NSC-105-A-4N	1/4"	NSC-105-A-4B	1/4"
	NSC-105-A-6N	3/8"	NSC-105-A-6B	3/8"
	NSC-105-A-8N	1/2"	NSC-105-A-8B	1/2"
	NSC-105-A-10N	3/4"	NSC-105-A-10B	3/4"
	NSC-105-A-12N	1"	NSC-105-A-12B	1"
Male Elbow	Model No.	Thread Size	Model No.	Thread Size
<b>Model No. NSC-106-ME</b>	NPT		BSP	
	NSC-106-ME-2N	1/8"	NSC-106-ME-2B	1/8"
	NSC-106-ME-4N	1/4"	NSC-106-ME-4B	1/4"
	NSC-106-ME-6N	3/8"	NSC-106-ME-6B	3/8"
	NSC-106-ME-8N	1/2"	NSC-106-ME-8B	1/2"
	NSC-106-ME-10N	3/4"	NSC-106-ME-10B	3/4"
	NSC-106-ME-12N	1"	NSC-106-ME-12B	1"
Female Elbow	Model No.	Thread Size	Model No.	Thread Size
<b>Model No. NSC-107-FE</b>	NPT		BSP	
	NSC-107-FE-2N	1/8"	NSC-107-FE-2B	1/8"
	NSC-107-FE-4N	1/4"	NSC-107-FE-4B	1/4"
	NSC-107-FE-6N	3/8"	NSC-107-FE-6B	3/8"
	NSC-107-FE-8N	1/2"	NSC-107-FE-8B	1/2"
	NSC-107-FE-10N	3/4"	NSC-107-FE-10B	3/4"
	NSC-107-FE-12N	1"	NSC-107-FE-12B	1"
Street Elbow	Model No.	Thread Size	Model No.	Thread Size
<b>Model No. NSC-108-SE</b>	NPT		BSP	
	NSC-108-SE-2N	1/8"	NSC-108-SE-2B	1/8"
	NSC-108-SE-4N	1/4"	NSC-108-SE-4B	1/4"
	NSC-108-SE-6N	3/8"	NSC-108-SE-6B	3/8"
	NSC-108-SE-8N	1/2"	NSC-108-SE-8B	1/2"
	NSC-108-SE-10N	3/4"	NSC-108-SE-10B	3/4"
	NSC-108-SE-12N	1"	NSC-108-SE-12B	1"
Male Tee	Model No.	Thread Size	Model No.	Thread Size
<b>Model No. NSC-109-MT</b>	NPT		BSP	
	NSC-109-MT-2N	1/8"	NSC-109-MT-2B	1/8"
	NSC-109-MT-4N	1/4"	NSC-109-MT-4B	1/4"
	NSC-109-MT-6N	3/8"	NSC-109-MT-6B	3/8"
	NSC-109-MT-8N	1/2"	NSC-109-MT-8B	1/2"
	NSC-109-MT-10N	3/4"	NSC-109-MT-10B	3/4"
	NSC-109-MT-12N	1"	NSC-109-MT-12B	1"
Female Cross	Model No.	Thread Size	Model No.	Thread Size
<b>Model No. NSC-110-FC</b>	NPT		BSP	
	NSC-110-FC-2N	1/8"	NSC-110-FC-2B	1/8"
	NSC-110-FC-4N	1/4"	NSC-110-FC-4B	1/4"
	NSC-110-FC-6N	3/8"	NSC-110-FC-6B	3/8"
	NSC-110-FC-8N	1/2"	NSC-110-FC-8B	1/2"
	NSC-110-FC-10N	3/4"	NSC-110-FC-10B	3/4"
	NSC-110-FC-12N	1"	NSC-110-FC-12B	1"

Female Tee	Model No.	Thread Size	Model No.	Thread Size
	NPT		BSP	
	Model No. NSC-111-FT			
	NSC-111-FT-2N	1/8"	NSC-111-FT-2B	1/8"
	NSC-111-FT-4N	1/4"	NSC-111-FT-4B	1/4"
	NSC-111-FT-6N	3/8"	NSC-111-FT-6B	3/8"
	NSC-111-FT-8N	1/2"	NSC-111-FT-8B	1/2"
	NSC-111-FT-10N	3/4"	NSC-111-FT-10B	3/4"
	NSC-111-FT-12N	1"	NSC-111-FT-12B	1"
Street Tee	Model No.	Thread Size	Model No.	Thread Size
	NPT		BSP	
	Model No. NSC-112-ST			
	NSC-112-ST-2N	1/8"	NSC-112-ST-2B	1/8"
	NSC-112-ST-4N	1/4"	NSC-112-ST-4B	1/4"
	NSC-112-ST-6N	3/8"	NSC-112-ST-6B	3/8"
	NSC-112-ST-8N	1/2"	NSC-112-ST-8B	1/2"
	NSC-112-ST-10N	3/4"	NSC-112-ST-10B	3/4"
	NSC-112-ST-12N	1"	NSC-112-ST-12B	1"
Branch Tee	Model No.	Thread Size	Model No.	Thread Size
	NPT		BSP	
	Model No. NSC-113-BT			
	NSC-113-BT-2N	1/8"	NSC-113-BT-2B	1/8"
	NSC-113-BT-4N	1/4"	NSC-113-BT-4B	1/4"
	NSC-113-BT-6N	3/8"	NSC-113-BT-6B	3/8"
	NSC-113-BT-8N	1/2"	NSC-113-BT-8B	1/2"
	NSC-113-BT-10N	3/4"	NSC-113-BT-10B	3/4"
	NSC-113-BT-12N	1"	NSC-113-BT-12B	1"
Y Branch Tee	Model No.	Thread Size	Model No.	Thread Size
	NPT		BSP	
	Model No. NSC-114-YBT			
	NSC-114-YBT-2N	1/8"	NSC-114-YBT-2B	1/8"
	NSC-114-YBT-4N	1/4"	NSC-114-YBT-4B	1/4"
	NSC-114-YBT-6N	3/8"	NSC-114-YBT-6B	3/8"
	NSC-114-YBT-8N	1/2"	NSC-114-YBT-8B	1/2"
	NSC-114-YBT-10N	3/4"	NSC-114-YBT-10B	3/4"
	NSC-114-YBT-12N	1"	NSC-114-YBT-12B	1"
Hose Nipple Male	Model No.	Thread Size	Model No.	Thread Size
	NPT		BSP	
	Model No. NSC-115-HNM			
	NSC-115-HNM-2N	1/8"	NSC-115-HNM-2B	1/8"
	NSC-115-HNM-4N	1/4"	NSC-115-HNM-4B	1/4"
	NSC-115-HNM-6N	3/8"	NSC-115-HNM-6B	3/8"
	NSC-115-HNM-8N	1/2"	NSC-115-HNM-8B	1/2"
	NSC-115-HNM-10N	3/4"	NSC-115-HNM-10B	3/4"
	NSC-115-HNM-12N	1"	NSC-115-HNM-12B	1"

## **BLOCK & BLEED VALVES**

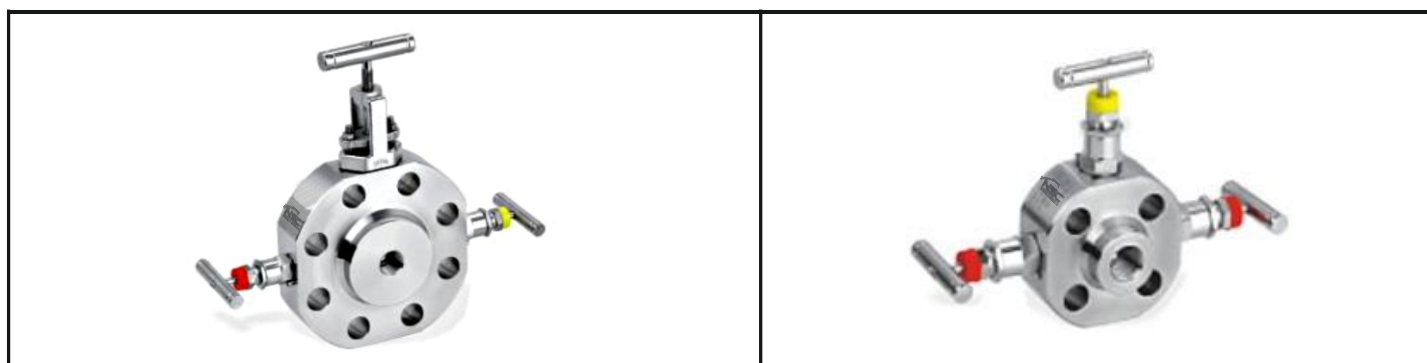
### **Modular type Block & Bleed Valves**

**NSC** Modular type BLOCK and BLEED VALVES have more Compact design, with Ball Needle Ball Configuration with full / Reduced Bore. Process Connection - Flange x Flange, Flange X Thread, Thread X Flange. Fire Safe Tested Reduced leakage points. Reduced Installation cost. Available in SS 316, Duplex, Super Duplex, Monel, Hastelloy, Inconel.





### **Mono flange Type Block and Bleed Valves**

**NSC** Monoflange type Block and Bleed valves are more Compact design, with Ball Needle Ball Configuration. Fully in accordance with ANSI / ASME specifications. Fire safe tested. Fully integral bolted bonnet. Metal seated on high pressure gas applications. Saving space, weight and money (close coupled, slim line)






## **MANIFOLD VALVES**

### **2 Valve Manifold**

<p><b>Multiport Gauge Valves</b></p>	<p>Multiport gauge valve is designed for giving the user flexibility in positioning of gauges or pressure switches. These valves can be supplied with vent valve and blanking plug separately.</p>	
<p><b>Single Block &amp; Beeds Gauge Valves</b></p>	<p>Needle Valve with downstream vent for usage with Static Pressure Gauge and instrument installation for isolation and venting.</p>	



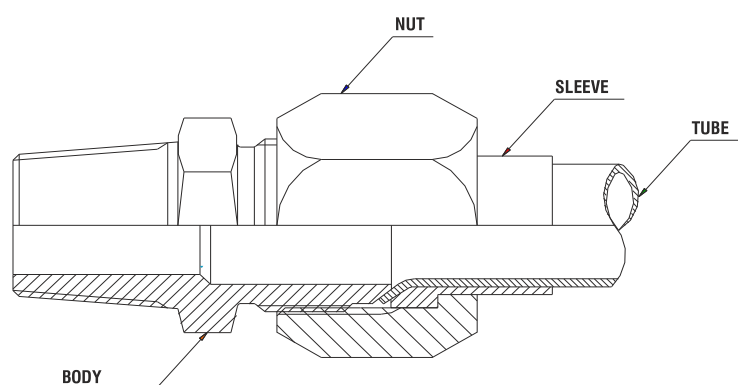
<b>3 Valve Manifold</b>		
<b>Three Valve Manifold Remote Mount (Pipe x Pipe)</b>	<p>Designed for applications to facilitate remote mounting of differential pressure instruments. Dimensions shown above are for the standard 54 mm or 2 1/8-inch instrument connection. Centre distance found in majority of instruments. The manifold is also available for instruments with other centre distances for instrument connections (as 55 mm, 56 mm and 57 mm) but dimensions shown will vary. Please consult us for the dimensions. Useful for installations in remote fields eliminating conventional method of piping.</p>	
<b>Three Valve Manifold Bar Type Direct Mount (Pipe x Flange)</b>	<p>Designed for direct mounting on to standard differential pressure transmitters. This manifold block incorporates three valves, two main process isolation valves and one equalizing valve. This design is suitable where the straight valve may foul with the instrument and to provide ease of operation. Dimensions are for the standard 54 mm or 2 1/8-inch instrument connection centre distance found in majority of instruments. The manifold is also available for instruments with other centre distances for instrument connections (as 55 mm, 56 mm and 57 mm) but dimensions shown will vary.</p>	
<b>Three Valve Manifold Direct Mount T Type (Pipe x Flange)</b>	<p>Designed for direct mounting on to standard differential pressure transmitters. This manifold block incorporates three valves, two main process isolation valves and one equalizing valve. Dimensions are for the standard 54 mm or 2 1/8-inch instrument connection centre distance found in majority of instruments. The manifold is also available for instruments with other centre distances for instrument connections (as 55 mm, 56 mm and 57 mm) but dimensions shown will vary.</p>	

## JIC FLARE FITTINGS

**NSC** JIC flare fitting is an excellent pressure fitting with a broad selection of styles and shapes used very extensively all over the globe. Its main features are its simplicity, compactness, ease of assembly, high reliability, easy availability and global acceptance. These flare fittings can also use be as hose adapters. The basic design is simple and uses a flared tube end to hold and seal the medium under pressure. Main construction consists of three pieces: the body, sleeve and nut. The end of the tube is flared to 74° included angle and held in between the body nose and the sleeve with a nut on top of them, thus resulting in a very effective seal between the fittings and the flared tube.

All Flare fittings are designed to suit metric and inch tubing simply by changing the sleeve. The same fitting can be used to connect corresponding sizes of both metric and inch OD tubing. This advantage reduces parts inventory and possible mixing of parts.

### Typical JIC flare fitting design



## JIC Flare Fittings Index

Union	Female Elbow
Bulk Head Union	Union Tee
Reducing Union	Bulk Head Run Tee
Male Connector	Male Run Tee
Female Connector	Female Run Tee
Union Elbow	Union Cross
Bulk Head Elbow	Pipe End Closure
Male Elbow	Fitting End Closure
Nuts	Sleeves

## PRESSURE SAFETY VALVE

**NSC** Pressure safety valves provide overpressure protection with variety of set pressures. For application needing to vent system pressure to atmosphere. Special spring design ensures accurate pressure release and shut off.



**Pressure Safety Valve Coding Table:**

Size	Code	Type	Code	MOC	Code	Seating	Code	Pressure	Series	Code	Thread Type	Code
1/8"	2	Male	M	SS304	S4	Viton	V	6000psi	Series 2	P2	BSP	B
1/4"	4	Female	F	SS316	S6	Kalrez	K				NPT	N
3/8"	6	Male x Female	D	HC276	H6						OD	O
1/2"	8	OD	O	INC 625	I5							
3/4"	10			Monel 400	M4							
1"	12											

**Packing Selection Table:**

Packing material	Pressure	Temperature	Packing material	Pressure	Temperature
Viton	6000psi	200 deg.c	Kalrez	6000psi	250 deg.c

**Spring Selection Table:**

Pressure Range	Codes
50-300psi	C1
350-700psi	C2
750-1500psi	C3
1500-3000psi	C4
3000-4000psi	C5
4000-5000psi	C6
5000-6000psi	C7

**Item Code Example:**

- Brand Name: **NSC**
- Item Name: Pressure Safety Valve (Abbreviation: **SV**)

Item code	Item description
<b>NSC-SV4DS6V-P2-N</b>	Pressure safety valve 1/4"Male x Female SS316 Viton 6000psi NPT

**Item Code Example:**

- Brand Name: **NSC**
- Item Name: Spring Kit (Abbreviation: **SK**)

Item code	Item description
<b>NSC-SK-C1</b>	Spring Kit 50-300psi

## FLUSH BOTTOM VALVE



**NSC** Flush Bottom Valves are special purpose valves used in vessels with threaded opening to drain out any product or slurry left in the vessel. These valves are most commonly used for dead space free draining or feeding of vessels and pipelines.



**Flush Bottom Valve Coding Table:**

Size	Code	Type	Code	MOC	Code	Seating	Code	Pressure	Series	Code	Thread Type	Code	Opening	Code
1/8"	2	Male x Female	D	SS304	S4	CFT	C	3000psi	Series 1	P1	BSP	B	8mm	8M
1/4"	4			SS316	S6	Metal	M	6000psi	Series 2	P2	NPT	N	10mm	10M
3/8"	6			HC276	H6						Metric	M	15mm	15M
1/2"	8			INC 625	I5								25mm	25M
3/4"	10			Monel 400	M4									
1"	12													

**Packing Selection Table:**

Packing material	Pressure	Temperature	Packing material	Pressure	Temperature
CFT	6000psi	250 deg.c	Metal	6000psi	500 deg.c

**Item Code Example:**

- Brand Name: **NSC**
- Item Name: Non-return valve (Abbreviation: **FB**)

Item code	Item description
<b>NSC-FB8DS6C-P1-B-10M</b>	Flush bottom valve 1/2"Male x Female SS316 CFT 3000psi BSP 10mm



## QUICK RELEASE COUPLING (QRC)



**NSC** Quick release couplings are used to mate fluid lines with system equipment that requires frequent connecting and disconnecting. They are used in both pneumatic and hydraulic applications to build or discontinue the connection of a fluid pipeline. Quick release couplings are easy to operate and no twisting, turning or wrenching required.



**Quick Release Coupling (QRC) Coding Table:**

Size	Code	Type	Code	MOC	Code	Seating	Code	Pressure	Series	Code	Thread Type	Code
1/8"	2	Male x Female	M	SS304	S4	Viton	V	3000psi	Series 1	P1	BSP	B
1/4"	4			SS316	S6						NPT	N
3/8"	6											
1/2"	8											

**Packing Selection Table:**

Packing material	Pressure	Temperature
Viton	3000psi	200 deg.c

**Item Code Example:**

- Brand Name: **NSC**
- Item Name: Non-return valve (Abbreviation: **QR**)

Item code	Item description
<b>NSC-QR4MS6V-P1-N</b>	Quick release coupling 1/4"Male x Female SS316 Viton 3000psi NPT

## INLINE FILTER

**NSC** Inline filters remove system particulate contaminants and used for Gas and liquid service. Inline filters are for use where space is limited. Replaceable sintered elements are available in 0.5, 2, 7, 15, 60, and 90  $\mu\text{m}$  nominal pore sizes. End connections include tube fittings, NPT, tube adapter.

Size	Code	Type	Code	Seating	Code	MOC	Code	Pressure	Series	Code	Thread Type	Code
1/8"	2	Male	M	Viton	V	SS304	S4	3000psi	Series 1	P1	2 micron	2M
1/4"	4	Female	F	Kalrez	K	SS316	S6			P2	7 micron	7M
3/8"	6	OD	O			HC276	H6			P3	60 micron	60M
1/2"	8					INC 625	I5					

**Packing Selection Table:**

Packing material	Pressure	Temperature	Packing material	Pressure	Temperature
Viton	3000psi	200 deg.c	Kalrez	000psi	250 deg.c

**Item Code Example:**



- Brand Name: **NSC**
- Item Name: Inline Filter (Abbreviation: **IF**)

Item code	Item description
<b>NSC-IF4OS6V-P1-7M</b>	Inline filter 1/4"OD SS316 Viton 3000psi 7 micron





## PRESSURE REGULATOR

**NSC** Pressure regulator are designed for reliable pressure control which is essential to the safe operation of your fluid systems. At NSC, we have the right combination of regulators to fit practically any situation, and our advisors can help you find a configuration that will maintain pressure and minimize drop over a wide range of pressures and flows.

<p><b>Forward Pressure Regulator</b></p>	<p><b>NSC</b> forward pressure regulators are Compact pressure reducing station suitable for multiple gases.</p> <p>Gases: N<sub>2</sub>, O<sub>2</sub>, Air, NH<sub>3</sub>, H<sub>2</sub>, CO<sub>2</sub></p>	
<p><b>Back Pressure Regulator</b></p>	<p><b>NSC</b> Back Pressure Regulator general purpose, compact backpressure regulator for control pressures up to 6000 psig / 413 bar. Ideal for use in industrial equipment for hydraulic or pneumatic service.</p> <p>These regulators are available in both SS316 &amp; Hastelloy C276 with packing material Peek, PTFE, CFT &amp; Kalrez.</p>	

## GLOBE AND GATE VALVES

**NSC** Make Globe Valve uses the variable area generated between the plug and seat to control fluid flow. It is very versatile offering reduced trim options as well as variety of special trims for severe high pressure drop applications. This style of valve is easily adapted for use on cryogenic temperatures and for high temperature applications. This valve is preferred for tight shut-off, positioning accuracy, high rangeability and simplified maintenance, satisfy the majority of control valve applications throughout the process and power industries in control of Air, Steam, Water, Gas, Chemicals etc.

		<table><tr><td>Valve Size</td><td>15mm to 50mm (1/2" to 2")</td></tr><tr><td>Pr. Rating</td><td>ANSI 150 to 2500</td></tr><tr><td>End Connections</td><td>Flanged, Screwed, Butt weld, Socket weld</td></tr><tr><td>Body Material</td><td>Carbon Steel, Stainless Steel</td></tr><tr><td>Bonnet</td><td>Standard, Finned, Cryogenic</td></tr><tr><td>Gland Packing</td><td>Grafoil / PTFE</td></tr><tr><td>Diaphragm</td><td>Nitrile / Neoprene</td></tr><tr><td>Spring Range</td><td>3 – 15 PSI, 6 – 30 PSI</td></tr><tr><td>Air Supply/ Conn.</td><td>20 – 30 PSI / 1/4" NPT</td></tr></table>	Valve Size	15mm to 50mm (1/2" to 2")	Pr. Rating	ANSI 150 to 2500	End Connections	Flanged, Screwed, Butt weld, Socket weld	Body Material	Carbon Steel, Stainless Steel	Bonnet	Standard, Finned, Cryogenic	Gland Packing	Grafoil / PTFE	Diaphragm	Nitrile / Neoprene	Spring Range	3 – 15 PSI, 6 – 30 PSI	Air Supply/ Conn.	20 – 30 PSI / 1/4" NPT
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# NSC INDUSTRIES PVT. LTD.

## VISION

To provide import substitute products in India at reasonable price by maintaining international quality standards, continual improvement in products, processes and technology.

## MISSION

To become India's No.1 mechanical & pneumatic pressure & flow control solution provider in our product venture.



[www.nscindustries.com](http://www.nscindustries.com)



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